PING XU, Pennsylvania State, USA
Equivariant gerbes over compact simple Lie groups

We will discuss S^1-gerbes over a Lie groupoid (or more precisely, a stack), and describe their Dixmier-Douady class in terms of connection-like data. As an example, we present, for a compact simple Lie group G, an infite dimensional modle of S^1-gerbe whose Dixmier-Douady class corresponds to the canonical generator of the equvariant cohomology $H_G^3(G)$.

(joint work with Kai Behrend and Bin Zhang.)